

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P244104

Luminaire Tested: **LSR8B10D010 EC8B10840 8LBSWOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244104
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-53)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B10D010 EC8B10840 8LBSW0LI
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1197.0 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.2 / 1.11
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

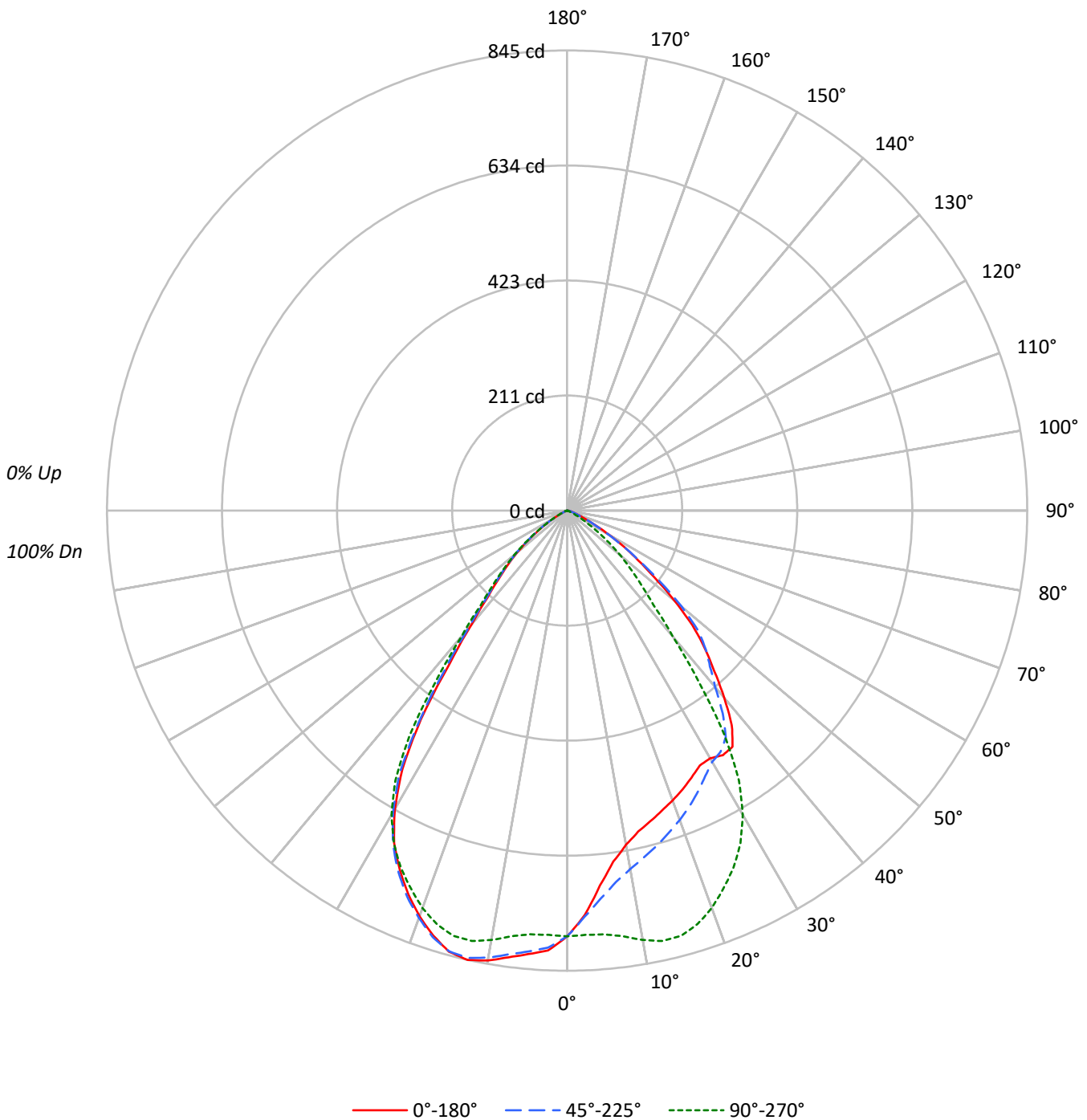
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10	0		
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99		99	97	96		96	94	93	91
2	105	99	95	91	103	98	93	90	94	91	88		91	88	86		88	86	84	82
3	99	91	85	80	96	89	84	79	87	82	78		84	80	77		82	78	76	74
4	92	83	76	71	90	82	76	71	80	74	70		77	73	69		76	72	68	67
5	86	76	69	64	84	75	69	64	73	68	63		72	66	63		70	65	62	60
6	81	70	63	58	79	69	63	58	68	62	57		66	61	57		65	60	56	55
7	76	65	58	53	74	64	57	52	63	57	52		61	56	52		60	55	52	50
8	71	60	53	48	70	59	53	48	58	52	48		57	52	48		56	51	47	46
9	67	56	49	44	66	55	49	44	54	48	44		53	48	44		52	47	44	42
10	63	52	45	41	62	52	45	41	51	45	41		50	44	40		49	44	40	39

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	24114	24114	24114
5°	21395	24172	25305
10°	19507	25072	26268
15°	18851	25804	26768
20°	18580	25484	26013
25°	18400	24606	24759
30°	18701	22963	22539
35°	19933	19003	17625
40°	18062	12165	11018
45°	15590	8325	7749
50°	12300	6073	5718
55°	8537	3731	3511
60°	5433	1887	1684
65°	2714	752	569
70°	1497	370	207
75°	1072	274	95
80°	870	178	36
85°	955	142	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.9	6.1
10°-20°	210.5	17.6
20°-30°	305.5	25.5
30°-40°	300.9	25.1
40°-50°	188.6	15.8
50°-60°	91.0	7.6
60°-70°	22.0	1.8
70°-80°	4.4	0.4
80°-90°	1.0	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	588.9	49.2
0°-40°	889.8	74.3
0°-60°	1169.5	97.7
0°-90°	1197.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1197.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	782	782	782	782	782	
5°	691	715	781	813	818	64
15°	590	637	808	838	838	167
25°	541	569	723	733	728	250
35°	530	508	505	476	468	320
45°	358	360	191	183	178	273
55°	159	164	69	69	65	146
65°	37	37	10	9	8	42
75°	9	8	2	1	1	10
85°	3	2	0	0	0	3
90°	0	0	0	0	0	



TEST NUMBER: P244104

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	782.0	782.0	782.0	782.0	782.0	782.0	782.0	782.0	782.0	782.0	782.0
2.5°	743.3	738.6	729.8	740.5	740.5	734.5	746.4	739.2	745.0	754.0	746.0
5°	691.2	687.3	679.9	691.2	692.6	687.1	701.4	696.1	704.5	715.6	714.6
7.5°	649.9	644.9	638.2	649.9	652.1	648.4	662.2	659.7	670.8	685.2	687.7
10°	623.0	617.8	611.9	622.5	624.2	621.7	635.7	634.3	645.1	661.8	668.4
12.5°	603.8	599.5	593.0	604.3	606.1	602.6	615.8	615.1	626.4	643.9	652.1
15°	590.5	585.4	579.4	589.1	591.5	587.6	600.1	598.9	610.4	627.7	636.9
17.5°	578.0	573.2	567.1	576.1	578.6	574.5	586.8	584.7	594.6	611.0	620.5
20°	566.2	561.1	555.6	564.8	566.2	561.5	573.8	571.2	580.0	595.2	604.5
22.5°	554.1	548.8	543.0	552.1	553.5	548.8	560.1	557.0	565.2	579.0	587.4
25°	540.8	535.8	530.1	538.5	539.7	534.6	546.5	542.6	549.8	561.9	568.9
27.5°	527.4	522.7	516.3	524.9	525.6	520.6	531.5	526.2	532.1	543.2	549.2
30°	525.2	519.8	513.2	520.2	520.4	514.1	524.3	518.0	521.2	529.5	533.0
32.5°	532.3	527.0	520.2	526.0	525.4	518.4	528.2	520.4	521.5	525.8	524.9
35°	529.5	523.1	515.1	521.2	521.2	512.8	522.7	513.4	512.4	513.0	507.9
37.5°	496.8	491.9	484.3	490.2	489.6	483.2	490.8	483.2	479.7	478.3	469.1
40°	448.7	442.8	437.0	443.4	444.0	437.2	447.1	438.4	437.4	433.3	422.4
42.5°	400.0	398.0	392.4	397.8	400.6	394.9	403.1	399.0	399.6	398.6	388.3
45°	357.5	354.0	349.9	356.1	357.9	355.0	363.3	360.8	363.3	368.4	360.0
47.5°	311.7	308.2	303.7	310.2	313.5	308.2	315.2	314.4	318.1	326.9	326.1
50°	256.4	253.9	253.1	253.9	256.0	253.5	258.5	258.7	261.1	273.3	274.1
52.5°	203.0	202.4	199.5	202.2	202.2	198.3	203.2	200.9	203.4	211.6	217.0
55°	158.8	158.2	156.4	158.8	156.1	154.7	156.1	153.9	152.0	158.4	164.0
57.5°	123.7	121.6	119.4	120.4	120.2	117.1	118.8	116.1	114.6	116.9	121.8
60°	88.1	87.5	85.5	86.5	87.3	85.1	86.7	85.5	83.0	84.9	85.1
62.5°	58.6	59.0	57.7	57.9	57.3	56.9	57.9	58.6	57.9	57.1	57.3
65°	37.2	37.0	36.8	37.0	37.4	36.6	37.2	37.6	37.0	37.0	36.8
67.5°	24.7	24.0	23.4	23.8	24.2	23.6	24.2	24.0	24.2	24.0	23.4
70°	16.6	16.4	16.2	16.4	16.4	16.0	16.4	16.2	16.4	16.2	15.6
72.5°	12.1	12.1	11.9	12.1	12.1	11.7	11.9	11.5	11.7	11.5	11.1
75°	9.0	9.0	8.8	9.0	8.8	8.6	8.8	8.6	8.2	8.2	7.8
77.5°	6.6	6.6	6.6	6.6	6.6	6.4	6.4	6.2	6.0	5.8	5.8
80°	4.9	4.7	4.7	4.7	4.7	4.5	4.7	4.5	4.3	4.1	3.9
82.5°	3.5	3.7	3.5	3.5	3.5	3.3	3.5	3.3	3.3	3.1	2.7
85°	2.7	2.7	2.7	2.7	2.7	2.5	2.5	2.5	2.3	2.3	2.1
87.5°	1.4	1.4	1.4	1.6	1.4	1.4	1.4	1.2	1.2	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	782.0	782.0	782.0	782.0	782.0	782.0	782.0	782.0	782.0	782.0	782.0
2.5°	756.7	757.7	755.5	759.0	772.5	761.6	766.2	767.6	777.9	779.7	778.5
5°	727.9	732.5	735.3	743.1	758.1	750.3	758.3	763.5	776.6	780.9	782.0
7.5°	705.3	714.8	721.8	734.5	752.2	746.2	758.3	766.8	782.8	788.3	791.0
10°	688.5	702.9	715.0	732.5	752.4	748.5	764.3	776.2	794.1	800.7	804.0
12.5°	675.8	693.2	709.4	731.6	753.2	751.4	770.5	784.0	802.9	809.5	813.4
15°	661.8	681.9	700.8	725.7	748.9	748.5	769.0	783.4	802.7	808.3	812.0
17.5°	645.1	666.7	687.5	714.4	737.4	737.8	758.6	772.7	791.6	796.2	798.6
20°	628.3	649.7	670.4	698.1	720.7	721.4	741.7	754.9	772.9	776.6	777.3
22.5°	610.4	630.3	651.1	678.6	700.4	700.8	721.0	733.3	748.7	750.5	752.2
25°	590.1	609.6	629.1	656.4	677.2	678.4	696.7	707.6	721.8	723.2	723.8
27.5°	568.9	584.9	603.6	627.1	648.0	647.2	664.5	676.8	689.5	688.7	688.5
30°	547.5	560.9	572.4	595.0	610.4	611.0	627.3	633.2	646.6	644.9	644.7
32.5°	532.5	536.0	539.1	550.6	565.2	560.1	571.2	578.6	587.8	587.2	587.4
35°	505.0	498.6	489.4	491.0	499.9	491.9	497.8	497.6	507.1	504.8	507.5
37.5°	458.0	439.9	419.3	407.6	409.3	399.2	397.2	402.1	405.4	399.0	401.3
40°	407.8	381.1	349.1	322.4	320.9	308.4	306.1	301.2	307.6	302.2	303.9
42.5°	370.9	335.5	293.4	260.9	253.9	243.5	237.3	236.5	238.3	234.6	233.6
45°	342.5	304.9	256.6	219.4	211.6	200.3	194.2	191.9	192.1	190.9	189.8
47.5°	309.2	271.4	222.5	184.5	175.7	165.0	158.8	157.4	158.2	156.6	155.3
50°	263.2	229.3	184.7	150.0	142.2	134.4	129.4	128.0	127.8	126.6	125.7
52.5°	213.7	185.5	146.9	117.9	110.9	103.3	99.9	98.0	98.2	97.0	95.7
55°	165.4	147.9	113.8	89.2	82.8	76.8	73.6	71.3	70.7	69.4	68.8
57.5°	123.1	111.4	85.3	64.3	60.6	54.9	51.6	48.9	48.5	47.9	47.7
60°	86.3	77.9	60.0	45.8	41.5	38.0	34.7	32.1	30.8	30.6	30.0
62.5°	55.9	50.7	39.4	30.6	27.3	24.9	21.6	19.7	18.9	18.1	18.3
65°	34.7	30.8	24.7	19.7	17.9	16.0	13.6	11.9	11.1	10.3	10.5
67.5°	21.6	19.3	15.6	12.7	11.5	10.1	8.2	7.0	6.4	5.8	5.3
70°	14.6	12.5	10.7	9.0	8.2	7.2	6.0	4.9	4.5	4.1	3.7
72.5°	10.3	9.2	7.8	6.8	6.2	5.3	4.5	3.9	3.5	3.1	2.7
75°	7.4	6.6	5.8	4.9	4.5	4.1	3.5	3.1	2.7	2.3	1.8
77.5°	5.3	4.7	4.1	3.7	3.5	2.9	2.5	2.3	2.1	1.6	1.2
80°	3.7	3.3	2.7	2.5	2.5	2.1	1.8	1.6	1.4	1.0	0.8
82.5°	2.5	2.3	2.1	1.8	1.6	1.4	1.4	1.0	0.8	0.6	0.4
85°	1.8	1.6	1.4	1.2	1.2	1.0	0.8	0.6	0.6	0.4	0.2
87.5°	1.0	1.0	0.8	0.6	0.6	0.4	0.4	0.2	0.2	0.2	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	782.0	782.0	782.0	782.0	782.0	782.0	782.0	782.0	782.0	782.0	782.0
2.5°	789.0	789.6	793.1	790.4	797.2	802.1	799.6	805.2	803.3	802.9	809.3
5°	794.3	795.7	800.5	798.0	805.4	810.7	808.3	814.4	812.6	812.2	818.8
7.5°	804.6	806.0	810.1	808.1	815.9	820.6	817.5	824.3	821.8	821.6	828.0
10°	817.5	819.6	823.1	821.0	828.2	832.3	829.2	835.8	833.5	832.5	839.5
12.5°	827.2	828.6	832.1	830.5	837.4	840.5	837.9	844.2	841.4	840.5	846.7
15°	824.9	826.4	829.2	827.8	834.4	837.2	833.8	840.7	837.9	836.2	841.8
17.5°	810.5	811.4	813.4	812.0	819.0	820.8	816.9	823.9	821.2	818.3	823.7
20°	789.4	789.0	790.2	789.6	795.3	796.4	793.9	799.0	795.9	794.3	797.4
22.5°	763.1	762.7	763.5	761.8	767.6	768.2	764.5	770.7	767.6	764.5	769.6
25°	733.9	731.6	731.2	731.8	735.7	736.4	732.5	737.0	733.1	730.6	735.5
27.5°	697.9	695.1	694.5	695.1	699.0	696.1	692.8	696.1	692.2	689.9	693.0
30°	653.6	649.5	647.6	646.4	650.5	649.5	641.9	645.6	639.4	636.1	638.4
32.5°	593.8	591.5	586.6	583.7	587.6	579.8	575.1	575.1	572.6	567.1	568.3
35°	510.8	507.3	502.8	500.3	500.9	490.4	482.6	484.3	476.0	474.6	475.2
37.5°	405.8	400.0	398.4	393.2	394.5	385.2	374.6	374.8	370.4	365.9	364.5
40°	304.9	303.9	302.2	297.9	299.6	289.5	285.4	285.6	282.7	279.4	281.1
42.5°	235.7	232.4	231.3	229.9	230.3	228.7	223.3	223.9	221.5	220.7	219.8
45°	191.5	188.0	185.5	186.8	186.8	184.9	182.9	184.1	182.9	181.2	182.0
47.5°	157.8	154.5	153.3	153.1	154.5	153.3	151.2	151.6	151.4	150.8	150.4
50°	125.9	125.1	124.1	123.5	124.1	123.7	121.8	122.9	123.5	121.4	122.0
52.5°	95.9	95.9	95.7	94.3	95.5	94.3	94.1	94.5	93.9	93.1	92.9
55°	70.3	69.7	68.6	68.4	68.8	68.4	68.0	68.2	68.6	66.6	66.6
57.5°	48.1	47.7	47.1	47.1	47.9	46.8	46.2	47.1	46.2	45.4	45.4
60°	30.8	30.6	30.0	30.0	30.0	29.8	29.2	29.4	29.8	28.6	28.8
62.5°	18.5	17.9	17.7	17.5	17.7	17.5	17.5	17.3	17.1	17.1	16.4
65°	10.1	9.7	9.2	9.5	9.5	9.2	9.2	9.2	8.8	8.6	8.4
67.5°	5.1	4.7	4.7	4.5	4.5	4.5	4.5	4.3	4.3	4.3	4.1
70°	3.3	3.1	2.9	2.9	2.9	2.7	2.7	2.7	2.7	2.7	2.5
72.5°	2.3	2.1	1.8	1.8	1.8	1.6	1.6	1.6	1.6	1.4	1.4
75°	1.6	1.4	1.2	1.2	1.2	1.0	1.0	1.0	1.0	1.0	1.0
77.5°	1.0	0.8	0.8	0.8	0.8	0.6	0.6	0.6	0.6	0.6	0.4
80°	0.6	0.6	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.2
82.5°	0.4	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0
85°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
87.5°	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: LSR8B10D010 EC8B10840 8LBSW0LI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	782.0	782.0	782.0	782.0	782.0	782.0	782.0	782.0
2.5°	807.0	805.4	806.4	814.0	810.7	809.7	801.1	808.7
5°	816.7	815.5	815.5	824.1	820.2	819.4	810.9	817.5
7.5°	825.7	824.5	824.7	833.5	830.5	829.2	820.8	827.4
10°	837.4	836.6	836.8	845.3	842.0	840.7	832.1	838.9
12.5°	844.4	843.2	843.2	852.2	848.5	846.7	838.5	845.1
15°	839.1	837.2	837.2	846.3	842.2	839.5	832.3	838.5
17.5°	820.8	819.0	819.0	826.8	823.7	819.8	812.4	818.1
20°	795.3	793.1	792.5	801.5	797.2	793.7	787.1	792.7
22.5°	766.6	765.5	763.7	772.7	768.8	765.1	758.1	762.5
25°	732.0	730.4	728.6	737.4	733.5	729.8	724.2	727.7
27.5°	689.1	689.3	688.3	695.3	691.4	689.3	682.5	688.3
30°	637.1	634.9	634.0	642.3	638.6	635.9	627.5	633.0
32.5°	569.3	566.0	561.7	571.0	564.6	562.3	555.1	563.2
35°	470.7	469.7	465.8	473.6	470.1	466.0	461.5	468.2
37.5°	363.9	364.7	364.3	366.3	364.3	361.6	356.7	354.2
40°	277.8	275.7	274.1	277.8	273.5	273.5	270.6	273.7
42.5°	217.8	217.0	219.0	219.8	217.4	217.0	216.6	216.3
45°	179.8	179.8	180.2	181.0	180.2	179.8	178.5	177.7
47.5°	148.1	149.0	148.1	150.8	149.4	149.0	146.5	147.5
50°	120.0	119.0	120.0	120.8	121.0	119.8	118.5	119.2
52.5°	93.1	91.4	91.0	92.3	91.4	91.4	90.6	90.4
55°	65.5	66.2	65.1	66.2	65.7	65.1	64.5	65.3
57.5°	44.4	44.6	44.2	44.8	43.8	44.0	43.8	43.6
60°	28.8	27.9	27.9	28.6	27.5	27.5	27.3	27.3
62.5°	16.4	16.2	16.2	16.0	15.8	15.8	15.8	15.4
65°	8.4	8.2	8.0	8.0	8.0	8.0	7.8	7.8
67.5°	4.1	3.9	3.9	4.1	3.9	3.9	3.9	3.9
70°	2.5	2.5	2.3	2.5	2.3	2.3	2.3	2.3
72.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
75°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
77.5°	0.6	0.4	0.4	0.4	0.4	0.4	0.4	0.4
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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